

REVISIONS

SYMBOL	DESCRIPTION	DATE	APPROVAL
A	DRAWING REVISED AND RELEASED	8/6/91	<i>[Signature]</i>

SHEET REVISION STATUS

[illegible]

ORIGINATOR T.J. King / Unisys

DATE
7-9-91

FSC: 4540

APPROVED *[Signature]*
S.E. Archer-Davies/Unisys

7-9-91

Detail Specification for Thermofoil Heater

CODE 311 APPROVAL
P.J. Jones/GSFC

7-12-91

CODE 311 SUPERVISORY APVL
G.P. Kramer, Jr./GSFC

7/12/91

ADDITIONAL APPROVAL

S-311-P-079/07

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND 20771

CAGE CODE: 25306

PAGE 1 OF 3

1. SCOPE

- 1.1 Scope. The complete requirements for procuring the heater described herein shall consist of this detail specification and the issue in effect of GSFC specification S-311-P-079.
- 1.2 Goddard part number. The heater shall be identified by the part number listed in table I.

2. APPLICABLE DOCUMENTS

- 2.1 Applicable documents: The following document, of the issue in effect on the date of invitation for bids, for a part of this specification to the extent specified herein.

Specifications

NASA/GSFC

S-311-P-079 Procurement Specification for Thermofoil Heater

3. REQUIREMENTS

- 3.1 Detail requirements. The individual item detail requirements shall be in accordance with GSFC procurement specification S-311-P-079, and as specified herein.
- 3.2 Dimensions and configuration. Heaters shall be of the physical dimensions and configuration as specified in Table I. The length and width of each heater shall not vary by more than ± 0.06 " for dimensions from 6.01" to 12".
- 3.3 D.C. Resistance (DCR). DCR of the heaters shall be as listed in Table I with a tolerance of $\pm 3\%$.
- 3.4 Power Rating. The power rating of the heater shall be as listed in Table I.
- 3.5 Heater Elements. The circuitry layout shall be non-inductive and shall provide uniform packing density for uniform heat transfer over the heat sink surface area.
- 3.6 Insulator. The heater shall contain a Kapton film insulator. The thickness of the Kapton film insulator, located on the surface without adhesive, shall be 3 mils.
- 3.7 Adhesive. All heaters shall be coated on one side with a pressure sensitive adhesive with release paper backing. The adhesive used shall be Minnesota Mining and Manufacturing (3M) Type 966.

4. PRODUCT ASSURANCE PROVISIONS.

4.1 Qualification inspection. Qualification inspection shall be in accordance with GSFC S-311-P-079.

4.2 Quality conformance inspection. Quality Conformance Inspection shall be in accordance with GSFC S-311-P-079.

5. PREPARATION FOR DELIVERY

5.1 Preparation for delivery shall be in accordance with GSFC S-311-P-079.

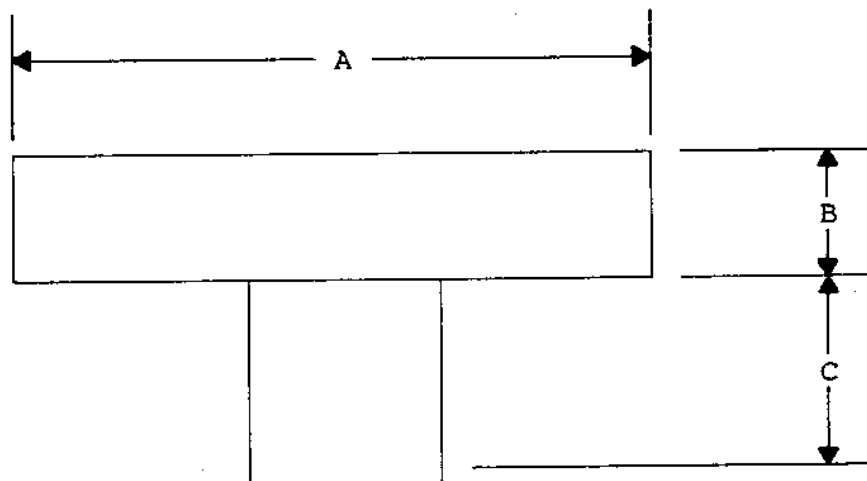


Figure 1

Note: Configuration 7 per MINCO bulletin HS-200

TABLE I.

Part No.	Figure	R (ohms)	Lead size (AWG)	Watts Max. 25°C	Volts Max. 25°C	in A (cm)	in B (cm)	ft C (m)
S-311-79/07-01	1	59.1	24	151	94.5	11.25 (28.57)	4.0 (10.16)	10 (3.04)